

ABSTRACT**ACOUSTIC LINER FOR GAS TURBINE ENGINE**

5 A passive acoustic liner system (50) for attenuating a
sound field comprising, in acoustic series, a mode-
scattering segment (48) and a sound-absorbing segment (40),
wherein the mode scattering segment (48) provides a
reactance between -12 and $-2 \rho c$ and the sound absorbing
10 segment (40) provides a reactance between -1 and $0 \rho c$
thereby providing a reactance discontinuity such that mode-
scattering of the sound field enables the sound-absorbing
segment (48) to further absorb the scattered sound.

15 (Figure 1)